

## CLAIMS

1. A call processing method in a telecommunications system, the method comprising:
  - receiving a call for a called communication station from a calling communication station;
  - suspending the call;
  - providing a caller identification indication and call disposition options to the called communication station;
  - detecting a call blocking option selected at the called communication station rejecting the call; and
  - in response to the call blocking option, adding information about the calling communication station to a blocking list associated with the called communication station so that completion of subsequent calls from the calling communication station is blocked.
2. The call processing method of claim 1 wherein adding information about the calling communication to the blocking list comprises:
  - detecting the calling directory number for the call; and
  - adding the calling directory number to the blocking list.
3. The call processing method of claim 2 further comprising:
  - at a service node of the telecommunications system, playing a message prompting a called party at the called communication station to select a call disposition option by entering a single key press;
  - at the service node, detecting signalling information due to the single key press; and
  - at the service node, adding the calling directory number to the blocking list at the SCP via a communication link when the signalling information corresponds to the call blocking option.

4. The call processing method of claim 3 further comprising:  
at the service node, playing a message providing a first call disposition  
option to reject the call and a second call disposition option to reject  
the call and add the calling directory number to the blocking list.

5. The call processing method of claim 3 wherein detecting signalling  
information comprises detecting dual tone multi-frequency signals at the service  
node.

6. A service node operable in a telecommunications system, the  
service node comprising:  
first computer code to detect caller identification information for a call  
routed to the service node;  
second computer code to provide a caller identifier based on the detected  
caller identification information for a new call placed from the  
service node to a called communication station;  
third computer code to detect a call disposition option entered as a single  
key press by a called party at the called communication station; and  
fourth computer code to add a calling party directory number determined  
from the detected caller identification information to a blocking list  
associated with the called communication station.

7. The service node of claim 6 further comprising:  
fifth computer code to translate text of the detected caller identification  
information to signals representative of audible speech and to play  
the signals representative of audible speech to the called  
communication station as the caller identifier.

8. The service node of claim 6 wherein the first computer code is  
configured to detect the caller identification information in caller name

information passed with the call to the service node, if available, and otherwise in a calling party directory number passed with the call to the service node.

9. The service node of claim 8 further comprising:

fifth computer code to translate one of the caller name information and the calling party directory number to signals representative of audible speech to be played to the called communication station.

10. The service node of claim 6 wherein the second computer code if further configured to produce a setup message for a call, the setup message including a calling party identification field set to the calling party directory number, a called party identification field set to a directory number associated with the called communication station and a redirecting element field set to a predetermined directory number.

11. A telephone call setup message for processing a call, the call setup message comprising:

- a calling party identification field set to a directory number associated with a calling communication station;
- a called party identification field set to a directory number associated with a called communication station; and
- a data field set to a value to indicate the call should not be suspended but should be presented to the called communication station.

12. The telephone call setup message of claim 11 wherein the data field comprises a redirecting element field set to a predetermined directory number.

13. The telephone call setup message of claim 12 wherein the predetermined directory number is associated with a call control service.

14. A call processing method comprising:

receiving a termination attempt query message for a call from a calling  
party at a calling communication station, the call intended for a  
called party at a called communication station;  
determining from the termination attempt query message whether standard  
caller identification information can be provided for the call;  
if standard caller identification information can be provided, determining  
whether predetermined data is present in the termination attempt  
query message;  
if the predetermined data is not present, forwarding the call to a service  
node for processing;  
receiving a subsequent termination attempt query message for the call;  
detecting the predetermined data in the termination attempt query message;  
and  
completing the call to the called communication station.

15. The call processing method of claim 14 wherein determining  
whether predetermined data is present comprises testing a value of a redirecting  
element of the termination attempt query message.

16. The call processing method of claim 14 further comprising:  
if standard caller identification information can not be provided, routing the  
call to a privacy service.